

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643477

Luminaire Tested: GWS-SA6F-722-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-722-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36025.7 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

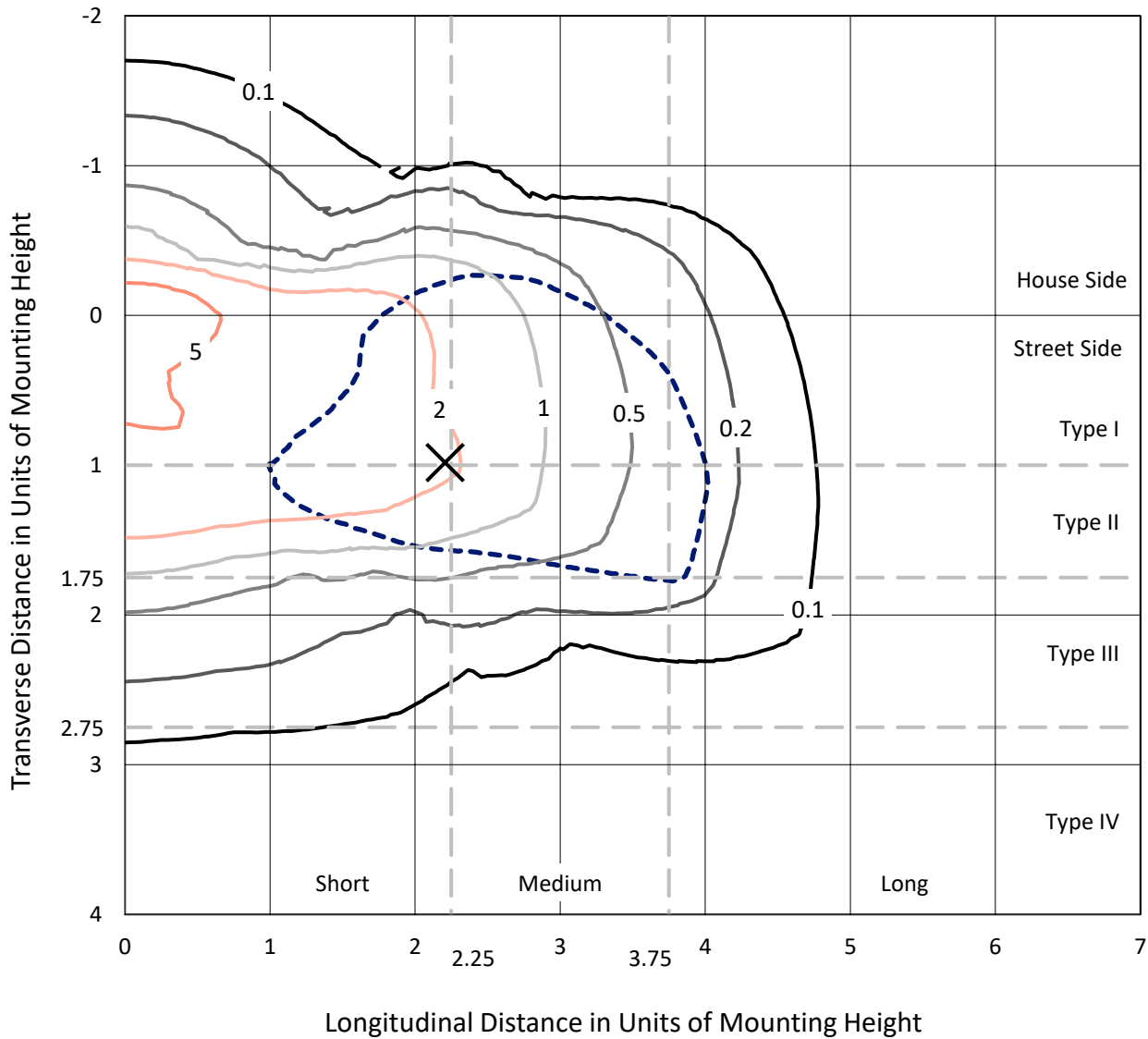
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

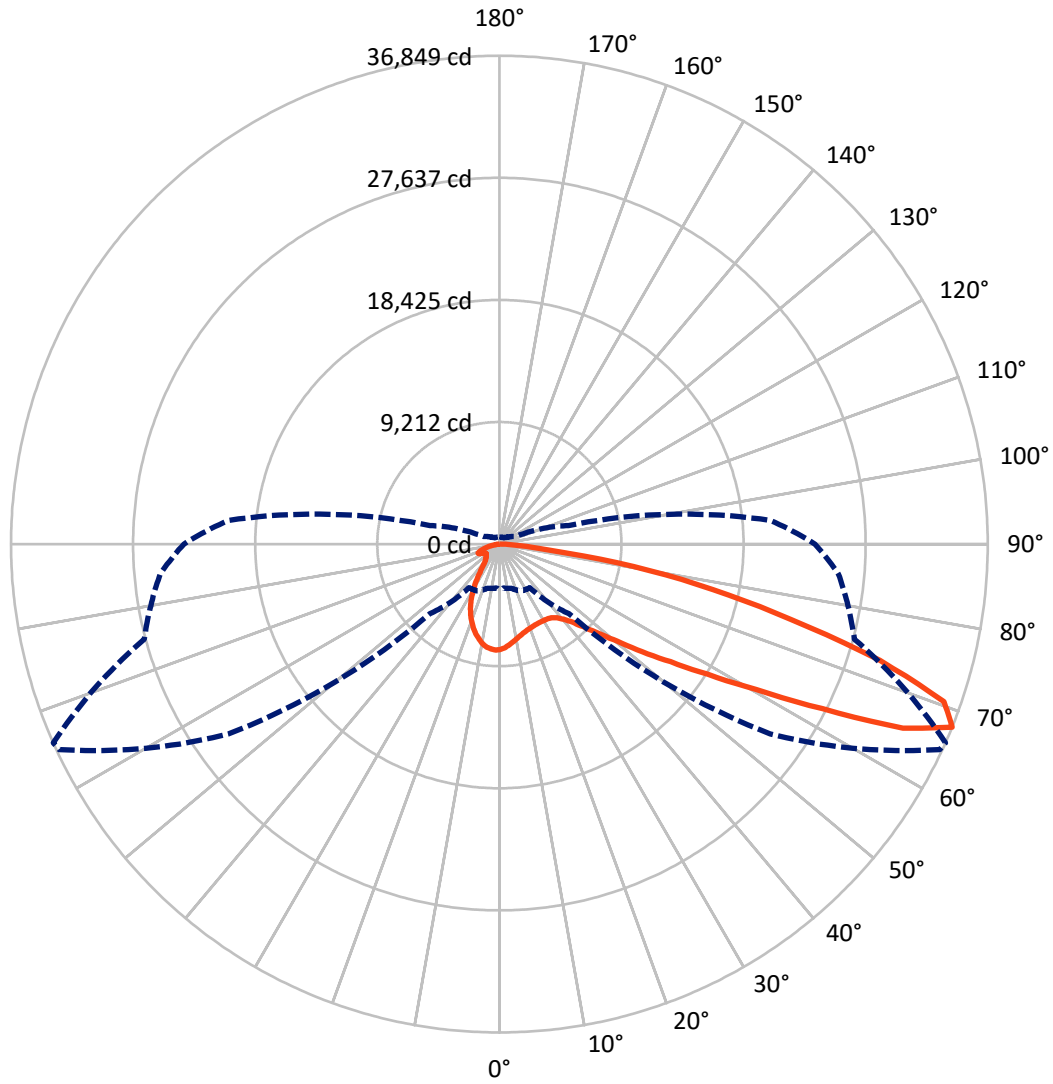
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7310.5	0.0	7310.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	28715.3	0.0	28715.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	36025.7	0.0	36025.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.6	1.9
10°-20°	1717.0	4.8
20°-30°	2360.1	6.6
30°-40°	3226.6	9.0
40°-50°	4889.2	13.6
50°-60°	7600.4	21.1
60°-70°	9253.3	25.7
70°-80°	5636.7	15.6
80°-90°	643.8	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	36025.7	100.0
0°-180°	36025.7	100.0

Coefficient of Utilization



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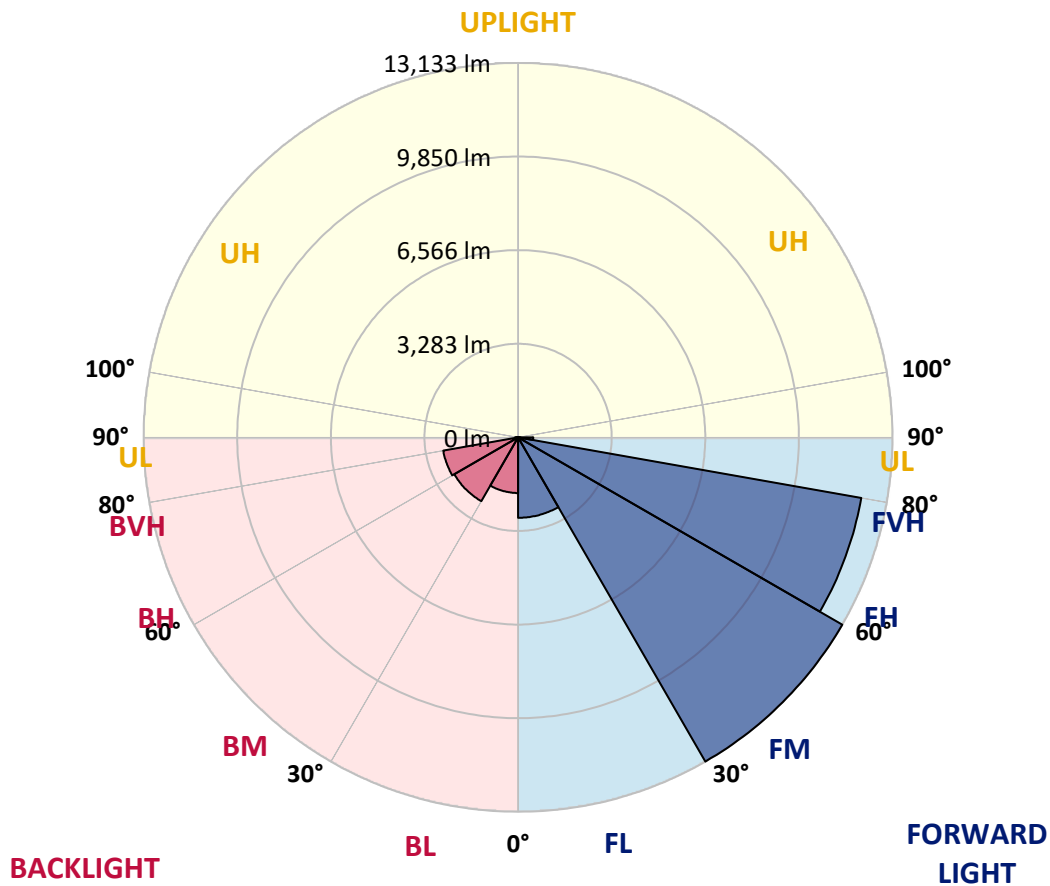
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2822.8	7.8			
FM (30°-60°)	13132.7	36.5			
FH (60°-80°)	12224.4	33.9			G5
FVH (80°-90°)	535.3	1.5			G4/750
BL (0°-30°)	1953.0	5.4	B3/2500		
BM (30°-60°)	2583.4	7.2	B3/5000		
BH (60°-80°)	2665.5	7.4	B4/5000		G4/5000
BVH (80°-90°)	108.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7
2.5°	7456.1	7482.3	7466.6	7566.4	7571.7	7697.8	7768.8	7829.2	7834.5	7913.4	7965.9
5°	6946.2	6962.0	6962.0	7056.6	7119.6	7287.9	7450.8	7624.3	7637.4	7826.6	7971.2
7.5°	6533.6	6549.3	6538.8	6665.0	6746.5	6933.1	7140.7	7406.1	7432.4	7737.3	7989.6
10°	6210.3	6205.1	6231.3	6347.0	6452.1	6675.5	6906.8	7209.0	7248.4	7634.8	8010.6
12.5°	5989.5	5994.8	6010.6	6131.5	6244.5	6465.2	6704.4	7032.9	7075.0	7516.5	8000.1
15°	5884.4	5873.9	5887.0	5997.4	6105.2	6299.7	6546.7	6885.7	6927.8	7411.4	8002.7
17.5°	5860.8	5852.9	5850.3	5929.1	6010.6	6191.9	6428.4	6772.7	6817.4	7343.0	8018.5
20°	5934.4	5923.8	5894.9	5929.1	5963.3	6115.7	6344.3	6691.3	6741.2	7298.4	8050.0
22.5°	6136.7	6118.3	6073.6	6031.6	5986.9	6078.9	6291.8	6630.8	6680.7	7269.5	8081.6
25°	6444.2	6428.4	6381.1	6286.5	6123.6	6107.8	6281.3	6604.5	6654.5	7248.4	8094.7
27.5°	6867.3	6843.7	6796.4	6659.7	6394.3	6215.6	6320.7	6601.9	6649.2	7224.8	8081.6
30°	7369.3	7353.6	7327.3	7161.7	6806.9	6444.2	6410.1	6622.9	6659.7	7211.6	8055.3
32.5°	7879.2	7863.4	7884.4	7805.6	7369.3	6822.7	6604.5	6680.7	6707.0	7209.0	8031.6
35°	8328.6	8347.0	8499.4	8512.6	8084.2	7335.2	6912.0	6814.8	6820.0	7261.6	8042.1
37.5°	8799.0	8870.0	9069.7	9240.6	8883.1	8013.2	7369.3	7067.1	7061.8	7395.6	8107.8
40°	9421.9	9453.4	9708.4	10029.0	9805.6	8943.6	8018.5	7479.7	7442.9	7668.9	8283.9
42.5°	10029.0	10105.2	10512.6	10880.5	10806.9	9992.2	8835.8	8097.3	8031.6	8152.5	8646.6
45°	10801.7	10875.3	11332.6	11805.6	11939.7	11177.5	9881.8	8975.1	8909.4	8880.5	9311.5
47.5°	11574.4	11650.6	12060.6	12743.9	13214.3	12659.8	11243.2	10134.1	10026.4	9913.4	10315.5
50°	12094.7	12184.1	12575.7	13395.7	14499.5	14510.0	12856.9	11653.2	11516.5	11337.8	11729.4
52.5°	12076.3	12134.2	12507.4	13453.5	15424.6	16636.2	15017.2	13587.5	13477.1	13088.2	13429.8
55°	11127.6	11214.3	11590.1	12772.8	15524.5	18652.0	18192.0	15868.8	15671.6	14975.2	15351.0
57.5°	9222.2	9295.8	9674.2	11132.8	14638.8	19684.8	22223.6	18775.5	18504.8	17030.4	17464.0
60°	6962.0	6872.6	7051.3	8328.6	12520.5	19711.1	25782.1	22717.7	22265.7	19227.5	19590.2
62.5°	5224.8	5135.4	5174.8	5534.9	8488.9	18118.4	27811.1	28110.7	27364.3	21708.5	21637.5
65°	4128.8	4078.9	4191.9	4438.9	4948.8	13797.8	27826.8	33942.5	33472.1	24583.7	23737.4
67.5°	3364.0	3332.5	3448.1	3905.4	4013.2	7414.0	24951.6	36665.3	36849.2	27732.2	25684.9
70°	2709.6	2662.3	2843.7	3445.5	3732.0	4486.2	17874.0	35277.6	35574.6	29608.7	25135.6
72.5°	1871.2	1873.9	1965.9	2791.1	3603.2	3873.9	10110.5	29374.8	30018.7	27908.3	22097.5
75°	1261.5	1272.0	1298.3	1842.3	3319.3	3758.3	5387.7	22239.4	22694.0	23067.2	18265.6
77.5°	762.2	767.4	827.9	1114.3	2289.1	3508.6	3650.5	16121.1	16478.5	15206.5	11322.1
80°	441.5	459.9	515.1	746.4	1545.4	2636.0	2825.3	9884.5	10289.2	6759.6	3597.9
82.5°	194.5	207.6	281.2	433.6	901.5	2241.8	2205.0	3905.4	3847.6	1884.4	1248.4
85°	34.2	42.1	60.4	136.7	331.1	1182.7	1710.9	1724.1	1621.6	714.9	517.7
87.5°	0.0	0.0	0.0	0.0	0.0	7.9	257.6	462.6	459.9	202.4	178.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7	7960.7
2.5°	8000.1	7929.1	7992.2	8000.1	7986.9	7976.4	7897.6	7829.2	7821.4	7747.8	7747.8
5°	8029.0	7963.3	7994.8	7934.4	7839.8	7742.5	7574.3	7458.7	7406.1	7311.5	7311.5
7.5°	8068.4	8000.1	7963.3	7813.5	7592.7	7379.8	7109.1	6883.1	6791.1	6657.1	6651.8
10°	8105.2	8018.5	7892.3	7600.6	7248.4	6909.4	6515.2	6194.5	5976.4	5816.1	5816.1
12.5°	8102.6	7989.6	7739.9	7308.9	6822.7	6331.2	5805.6	5322.0	5032.9	4783.2	4767.5
15°	8097.3	7942.3	7545.4	6969.8	6325.9	5645.3	4930.4	4299.6	3871.3	3626.8	3605.8
17.5°	8092.1	7881.8	7327.3	6583.5	5721.5	4793.7	3850.2	3166.9	2809.5	2659.7	2664.9
20°	8092.1	7813.5	7093.4	6139.4	5025.0	3774.0	2825.3	2328.5	2239.2	2247.1	2255.0
22.5°	8068.4	7729.4	6833.2	5655.8	4249.7	2775.3	2084.1	1915.9	1963.2	2036.8	2047.3
25°	8013.2	7590.1	6530.9	5119.6	3327.2	2021.0	1700.4	1668.9	1755.6	1847.6	1873.9
27.5°	7926.5	7429.8	6191.9	4491.5	2449.4	1624.2	1495.4	1492.8	1561.1	1629.5	1653.1
30°	7834.5	7251.1	5834.5	3792.4	1774.0	1413.9	1364.0	1364.0	1398.2	1440.2	1435.0
32.5°	7726.8	7069.7	5450.8	3064.4	1445.5	1295.7	1279.9	1272.0	1277.3	1293.0	1293.0
35°	7634.8	6909.4	5056.6	2294.4	1295.7	1230.0	1214.2	1195.8	1187.9	1177.4	1182.7
37.5°	7600.6	6783.2	4649.2	1729.3	1222.1	1182.7	1156.4	1130.1	1111.7	1106.4	1103.8
40°	7655.8	6730.7	4241.8	1424.5	1169.5	1132.7	1103.8	1069.7	1053.9	1053.9	1053.9
42.5°	7871.3	6770.1	3826.6	1287.8	1132.7	1090.7	1048.6	1017.1	1011.8	1017.1	1019.7
45°	8265.5	6922.5	3395.6	1219.5	1101.2	1048.6	998.7	975.0	975.0	980.3	980.3
47.5°	8969.9	7322.0	2969.8	1177.4	1069.7	1014.5	961.9	938.2	935.6	940.9	940.9
50°	10189.3	8042.1	2586.1	1148.5	1046.0	988.2	935.6	904.1	896.2	893.6	893.6
52.5°	11726.8	9290.5	2341.7	1127.5	1017.1	959.3	906.7	864.7	848.9	841.0	841.0
55°	13584.9	10954.1	2341.7	1111.7	980.3	925.1	864.7	822.6	799.0	788.4	788.4
57.5°	15690.0	12891.1	2746.4	1098.6	951.4	885.7	820.0	777.9	751.7	735.9	735.9
60°	17832.0	14938.4	3747.7	1080.2	925.1	835.8	770.0	730.6	696.5	678.1	675.4
62.5°	20052.8	17193.3	5067.1	1090.7	906.7	788.4	717.5	672.8	643.9	625.5	622.9
65°	22086.9	19340.5	6220.8	1172.2	909.3	746.4	657.0	617.6	594.0	570.3	567.7
67.5°	23813.6	20525.8	5411.4	1337.7	964.5	696.5	596.6	557.2	536.1	520.4	517.7
70°	22604.7	18717.7	3069.7	1440.2	1040.7	643.9	528.3	502.0	481.0	470.4	467.8
72.5°	19330.0	15847.7	2052.6	1272.0	948.8	575.6	465.2	444.2	428.4	415.2	412.6
75°	15658.5	12567.8	1569.0	1043.4	738.5	467.8	399.5	383.7	367.9	354.8	352.2
77.5°	9264.2	7261.6	1156.4	825.2	520.4	365.3	331.1	318.0	302.2	291.7	289.1
80°	2956.7	2523.0	733.3	567.7	344.3	281.2	254.9	244.4	228.6	215.5	212.9
82.5°	1127.5	975.0	389.0	289.1	228.6	191.9	170.8	160.3	149.8	136.7	134.0
85°	499.3	467.8	215.5	155.1	123.5	94.6	84.1	78.8	65.7	55.2	52.6
87.5°	176.1	176.1	92.0	44.7	26.3	13.1	7.9	2.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)